

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [3470] (Gap)-all antennas maintenance(long)
Message-ID: <n1400004801.69068@msmailgw1.arlut.utexas.edu>

Steve and the group,
I thought this was important to the whole QRP group, because issues raised here can happen to anyone's antenna, and we need to take into account conditions of propagation in this time of lowest sunspots.

I have a very successful installation of a Gap Titan vertical, all band full bandwidth antenna, 80-10. It is only 6 feet off the ground. These virtually ground independent antennas have their own counterpoise that makes it easy to get good operation, in a modest elevation, IF THE BANDS ARE OPEN. We have just gone thru a period of NO SUNSPOTS. That does not mean contacts are impossible, it just means that yes, you will likely hear NO signals over 10 dB over S9. We have had coronal holes, and all sorts of variable propagation.

Before rushing to the roof, if you wonder what is going on when you hear weak signals, tune over to WWV/WWVH or subscribe to the ARRL-List on Netcom.com and get the propagation forecasts and bulletins. WWV has them every hour. Then, if you find that propagation should be good to your area; check the other parts of your rig, feedline, and antennas systems in a logical manner. This is where having a dipole as kind of reference antenna, or some other Vee or horizontal one is useful. More than one antenna lets you check one against another for problems. If all receive poorly on different feedlines, and even different receivers, it is the poor conditions of propagation.

What are the areas that deteriorate with any sectional antenna, and this means most commercial verticals and beams? The overlapping Aluminum joints should be brightened up at assembly and coated with a NO-OX or similar anti corrosion product. Of course, Coax connectors should be bright on all mating surfaces, with rosin byproducts of soldering removed, and protected as has been done in this case. N- connectors, if assembled correctly, are supposed to be weather tight, but at least cover them with Scotch 33 + tape as added protection. Note if you have second hand N connectors, you have to renew the rubber gasket before reusing the connector. Type UHF connectors, more common on ham gear and not weather tight, need more protection in the outdoors, thus a combination of 33 + tape over the connector and adjacent coax and then Coax Seal, (clay like material) or similar will give the best results. Periodically, all bolts and screws should be loosened and retightened to break any corrosion loose that may be starting. Lock washers should be used under nuts, both to lock and to penetrate material that may have an invisible surface film of oxidation that does not conduct. [This happens on aluminum before you see the eventual white products of oxidation.]

Now QRP operations experience a type of failure that may not be see with 100 watt rigs. If the antenna corrodes, you may find QRP signals do not break

down the corrosion and the antenna works poorly. But if you put your QRO rig to the same antenna, its higher RF voltages can break down the corrosion and operate well. That is why QRP operators should be more vigilante about good installation of their antennas, and check the connections when problems are suspected. Some types of corrosion in an antenna joint or coax can raise the vertical's impedance closer to the perfect 50 ohms and "improve" your SWR! Of course, this is not desirable, but can conceal the fact you have a problem.

As raised in this query, the operator lives in a severe winter weather area. One of the banes of Northern climes is water getting into coax and freezing and later causing corrosion under the braid which is the place the RF is propagating. Foam coax may not be the best choice if Weather has the slightest chance of getting to your coax. Foam coax has air pockets that could become damp and this would be a problem. If you have coax exposed to long runs in the sun, or it must be placed underground (preferably in PVC or metal conduit), a non contaminating jacket coax should be chosen. The Wireman in South Carolina explains in his fine booklet all the ends and outs of coax, and says to avoid direct burial, so get his book for the full story. He gives them away at major hamfests, at his seminars. Even purchased, they are well worth the modest price.

Back to this specific Gap model. I am puzzled by the statement about not working on 12 M or 17 M, since it works on 10M. There is no "power splitter" in recent Gap models. There are linear decouplers, that take the place of traps, and work like low loss parallel transmission lines made of Aluminum tubing. Is this what you mean? Which model do you have, and was it supposed to work on 12 and 17? I would consult the directions for assembly of the antenna and see if you have the 12 and 17 M parts in the correct placement for operation. If doubt exists call the factory or write them, carefully sketching out how it is connected. Yours should have come with some assembly drawings of how things bolt together, double check that one of the jumpers between the linear decouplers that go across the gap do not have a bad joint on the lug, or the screw connecting the lug to the decoupler. Double check your instructions, - my Gap Titan is full bandwidth on 40 to 10 and should NOT be used with a tuner, it says that specifically. I have very low SWR on all those bands, and across more than the advertised 100 K Hz on 80, so I do not use a tuner. If you have a tuner in line, by pass it so you can check the antenna with only your rig, SWR meter and coax. Be sure your SWR meter is capable of operation on 12 and 17!

When one has an antenna problem suspected, first check all the other components into a dummy load resistor such as Cantenna, or one of the dry loads available today, to see if your rig, your SWR meter, your whole coax run, and the dummy load at the end all read 50 ohms, and 1:1 SWR. Then, once your major run of coax to the antenna is checked, you can focus on problems in the antenna. Often we will find a bad coax jumper between rig and SWR bridge, or bad connection at an antenna selector switch, or many other causes including present variable propagation for poor performance. Yes, coax only 2

years old should still be good, but with wet Winters, and cold and freezes anything can happen, thus do not be lulled into a false conclusion before you check everything.

Just because you have low or near 1:1 SWR, does not mean that all is well. Most verticals and beams (or any antenna) are not inherently 50 ohms at the feedpoint, and use some means to get near that value. What is important is to measure the SWR when the antenna is new, on all bands, and record that value for reference later, when and if you think you have a problem. How does that original value and the present value compare at the same frequency? That will give you a clue to where you may have a problem. If only certain bands turn bad, check the tuning arrangement for those bands, if propagation is not the cause.

Hope all this helps!
Stuart K5KVH
rohre@arlut.utexas.edu

From qrp-l@lehigh.edu Wed Sep 27 10:12:00 1995
From: nwqrp@scn.org (SCN User)
Subject: [3489] AN/GRC-109
Message-ID: <199509270735.AAA07674@scn.org>

QRP-L Gang,

Well, the AN/GRC-109 radio set arrived today from Fair Radio Sales. The equipment has definitely seen some use, but still looks okay. Everything works perfectly! I get a max of about 9 watts RF output into my half wave 40m dipole. The manual is a photocopy and some pages are missing, but there is a list of the missing pages and what they were. Mostly the missing pages were blank anyway. The receiver is not very selective at all, but is sensitive enough. I will spend some time in the next few days trying to make a QSO with it before I go on my vacation. I have XTALS for 7.040, 7.045, 7.110, and 7.125, and some for 80m as well.

All in all, this a great rig, considering I got the transmitter, receiver, power supply, manual, and a spare set of tubes for about \$130 ... and that includes shipping!

(Usual Disclaimer ...)

72!
--Brian, KV9X

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: beretta1@ix.netcom.com (LARRY PIKE)
Subject: [3493] Callsign Database Help Needed
Message-ID: <199509271127.EAA05951@ix.ix.netcom.com>

Can anyone tell me what to use as a LOGIN and PASSWORD to telnet into the Callsign database at Univ of Arkansas Little Rock????

I have been able to connect up but can't get in....

Pls post to QRP-L or e-mail me direct Beretta1@ix.netcom.com

Thanks....

Larry Pike
WD9HCR

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: wa5whn@ix.netcom.com (Jay Miller)
Subject: [3458] CD/ROMs QRP
Message-ID: <199509261422.HAA14199@ix.ix.netcom.com>

Dear Fellow QRPers,

Volume determines the final price. As it turns out, W6TOY/3 is absolutely correct, about copyright. However, I would like to point to a book, by WA7ZZE, Chuck Penson, "Writing the Heath Book". The review of the book was on Page 29, of "Electric Radio", Sept. '95 edition. Granted, Chuck had written about 1 Company's Products, but he had personally met a number of the original Heath Engineers, and they gave him schematics, manuals, brochures etc., to include in the book. For those who don't know what "Electric Radio" is. It is published by N6CSW, Barry & Shirley Wiseman, PO Box 57, Hesperus, Co. 81326. "Electric Radio" publishes articles on radios that actually glow in the dark. Lately, there have been numerous QRP articles. Amazing how many tube officiados there are out there. I have met Barry & Shirley, and they are very nice People.

If You don't ask, You never learn. BTW, both W6TOY/3 & I have been (independently of course) beating upon the ARRL to put "QST" into a CD/ROM format. Maybe we have been beating upon the wrong Person. Hello W2NSD/1, Wayne has always been receptive to old ideas with new formats.

Maybe we can interest QRZ/CD-ROM too, since "QRP" consumes over several Mbytes in every CD/ROM. I have no finicial interest in this, other than the love of the Hobby, period. Nothing more. I am sorry for

consuming the bandwidth.

I have several designs that I would like to throw in too. Let me pursue talking to NW2L about the "CQ" ownership of "Hamradio" QRP files & W2NSD/1 about some "73" QRP articles. Again, if You don't try, You never know. I am doing this as an interested Consumer/Hobbyist. I do know that You must purchase over 1 million copies of CD/ROMs to get the price under \$8.00/CD. I don't think we will hit 1 million. I had also thought it was a great way to expose all of the Clubs, maybe have a few *.jpg files of Field Day QRP style, etc.. All Public & Private (locally) Schools have CD/ROM libraries now. I have not found one CD/ROM Amateur Radio disk in any of the local libraries. Are we missing a great opportunity here ?

72...Jay, WA5WHN, Albuquerque, New Mexico

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: Jeff Gold <JMG@tntech.edu>
Subject: [3497] Compulsive
Message-ID: <01HVRIGYTK8CI1DH5A@tntech.edu>

All,

well last night was suppose to be my relaxation night.. got home and was too wound up to watch TV or anything else. Figured I needed to drop by my old ham shack and put a few wires in the OHR400.

Next thing I knew I had missed dinner (my wife claims she came in and told me and I was on a different planet or something.. just don't know about these XYs :-)

Well somehow when I finally came out of my trance.. all the wires in the kit had managed to miraculously get attached all over the place.. and you should see all those wires not tied together.. I don't like to tie them up untill I finish aligning the rig.

Left the room.. told myself.."I will NOT power up the rig" cause when I do this after hours of working on it.. and a day and a half of work.. manage to blow up many parts.. and then again.. if it smokes, end up suicidal.. so this time I vowed to behave.

Went out to watch TV.. that lasted almost 5 minutes... next thing I knew, I was back in the shack getting the power cord ready, attaching the QRP Wattmeter, getting the Freq counter out and such.

Hooked up the power supply with real low current .. an attempt to blow up as few parts as possible. Turned the switch.. the red power indicator came on. there was hiss in the headphones..

Got a little power out and a really pleasant side tone. I screamed with joy. turned it off and went to relax and watch tv.. this time it lasted almost 10 minutes.. there I was back in the shack tuning up the oscillator.. 3/4 bands came up right on frequency.. got the VFO tuned.. it always takes me a while to get the 150Kcs and get it the way I like it...

The keyer dahed and didn't dit.. turned the weight pot all the way and it seems ok now.. no more power out. but figure need to get the rest tuned up.. need to use the O'scope to get the oscillator board filters tuned (not sure I have ever done this before.. should be an experience.. sure hope I figure out how to use the scope. .been a few years and never did learn it.. need to get Doug H. to come over and learn me.)

73,72

Jeff, AC4HF

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995

From: telenet!orchid!smohan@uunet.uu.net (Sam Mohan)

Subject: [3462] Do Sand or Ceramic resistors make a good dummy load?

Message-ID: <9509261536.AA01562@orchid.telenet.com>

I hv noticed some sand and ceramic 50 Ohms resistors at 15W and higher in some parts catalogs (Hostfelt, All Electronics) lately.

How good are these for a dummy load?

(I have tube rig which has a power output range of 0 thru 20W and I am wondering if I can use one of these resistors as dummy load. I dont want to use my qrp dummy load and smoke it accidentally).

Has anyone hv any experience with this?

Tnx.

73 Sam N3UTM

SMohan@Orchid.Telenet.com

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: Jeff Gold <JMG@tntech.edu>
Subject: [3496] Dream Kit in QRPP?
Message-ID: <01HVRHTZKL5II1DH5A@tntech.edu>

All,

Haven't had much free time lately.. but this AM, instead of doing my text reading, I started to look at my latest edition of QRPP (and it said it was my last issue... does this mean the club is just over 3 years old now?)

Well just got to glance over the QRPP.. noticed Ray Magerian's article on an all band CW/SSB kit.. boy do I ever wish we can get someone to kit something like that (might want to wait for the update) possible Wilderness Radio futures?

73,72
Jeff, AC4HF

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>
Subject: [3464] Epiphyte kit sold
Message-ID: <26689.812131922@safety.ics.uci.edu>

To a fellow Zuni Looper, no less!

Clark
WA3JPG

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: telenet!orchid!smohan@uunet.uu.net (Sam Mohan)
Subject: [3463] Has anybody in MD recd QRPP?
Message-ID: <9509261543.AA01565@orchid.telenet.com>

I remember there was a posting stating that the latest QRPP issues hv been mailed. I hv not got mine yet. What about folks in Washington DC area? (The waiting is killing me!)

Tnx.

73 Sam N3UTM
SMohan@Orchid.Telenet.com

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: jess.gypin@dinosaur.com
Subject: [3487] Loop antenna
Message-ID: <9509262103.0TL2B00@dinosaur.com>

Thought I would try to get some help here with an antenna problem/project.

Several years ago there was an article published in the Michigan QRP club newsletter called the Rock loop.

This antenna is a tuned loop that is supposed to tune 15-30 meters at QRP power levels. It is a 33" per side square of #12 wire that is stretched across an X of wood. One side is connected to both halves of the square via a T-50-2 toroid form wound with 20 turns of #22 wire to the center conductor and ground of the coax. This is the primary winding of the transformer. The secondary is 5 turns of #22 wound opposite the primary and this is connected to the loop of wire with the one side of the secondary going to one half of the antenna and the other side of the secondary winding going to the other half of the square loop. At the exact opposite side of the square opposite the transformer, you put in a 100 pf air variable capacitor for tuning the loop. You are then supposed to be able to tune the antenna manually for resonance on 10-21 mhz.

I have built ones of these using PVC tubing for the support of the wire to make it a free standing frame as the goal was to make a portable QRP antenna that would break down for travel. The frame worked out real well as the whole package breaks down into a bundle that is 6 " in diameter and about 2 feet long. The problem is that the antenna does not work. It will not tune as advertised at all. The only change that I made to the original design is that the wire runs inside of 1/2 " PVC instead of being hung on wood.

I had my doubts as to using a transformer for coupling to the antenna, but this is a tried and true design and should work. I have tried several values of caps and no luck. My RF analyst SWR analyzer does show "resonance" at 28.670 only but the SWR is about 8 to 1 and changing and adjusting the cap has little or no effect on SWR or tuning. I have also transmitted at LOW power into the antenna and cannot achieve resonance thinking that the SWR analyzer may not be putting enough power into the antenna.

Any thoughts or ideas from the group? Could the antenna connection/coupling be wrong, modified, changed to something else? I am not in love with this design, just need a small wire loop that could be tuned for 40 or 30 meters to about 10 or 15 meters using wire suspended inside of a PVC frame...

All the best and thanks for the bandwidth
Jess NOTFI

VP Colorado QRP Club
JessQRP@aol.com
Jess.Gypin@dinosaurs.com

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: stickler@seminole.iag.net
Subject: [3457] Need help with 'mystery' linear bought at hamfest
Message-ID: <m0sxauA-0000DhC@iag.net>

I recently purchased an HF linear at a hamfest that has the following information on the front panel:

TRIAD-UTRAD AMATEUR AMPLIFIER
3 THRU 30 MEGAHERTZ MODEL LA 104

I'm using it with an Index Labs QRP+ transceiver (for when I'm in a not so masochistic mood ;-)) and it does great on CW (5W in, 50W out), but it acts very flakey on SSB.

SSB output from the QRP+ is about 1.5 watts average, and when I try to switch in the linear, the SWR rises to be equal to power output which fluctuates widely between 5 through 100 W -- according to the SWR meter.

I am tempted to suspect that the meter is not reading accurately, as I doubt that power output is actually going as high as 100W, since I'm putting less power in on SSB than on CW and get only 50W out on CW. In addition, the T/R relay switches in and out very quickly -- seeming only to kick in on the audio peaks.

Does anyone have any specific info on this linear, and/or have any suggestions on how to get this working with SSB?

Thanks,

Patrick
KC4YYY
stickler@iag.net

=====
Patrick Stickler * KC4YYY * Orlando, Florida U.S.A. * stickler@iag.net

Don't put off until tomorrow what you can do today; for if you enjoy it

today, you can do it again tomorrow...

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From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: RobCap@aol.com
Subject: [3468] NN1G rig on 20???
Message-ID: <950926130823_29675586@mail06.mail.aol.com>

Hi folks-

Can anyone on the QRP-L tell me whether or not Dave Benson, NN1G, has a 20 meter version of his famous 40-40? I know there is a 40-30, but I haven't heard whether or not Dave has gotten around to doing a 40-20.

I do not monitor QRP-L, so please respond directly to: Robcap@AOL.com

72,

Rob, WA3ULH

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: a0378@freenet.uni-bayreuth.de (Karl-Heinz Merscher)
Subject: [3491] Oak Hills Research Kits
Message-ID: <9509270950.AA25074@btr0x7.hrz.uni-bayreuth.de>

Hi,

does anybody here on the reflector know a good supplier for OHR-QRP-Kits in the USA? I prefer suppliers with E-mail access. So I tried send an E-mail to bob@raddev.com which is an employee of Radio Devices, Marlboro, Ma but I never received an answer back. I'm gonna buy me an EXPLORER Kit so I have to determine and compare the different offers.

Thank you in advance.

vy 73 de DL6RDE/AA1KD, Charlie

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995

From: Mike Robinson <miker@cc.com>
Subject: [3467] OHR400!!!
Message-ID: <9509261703.AA13482@voder.nsc.com>

000hhh, I hate it when this happens. My OHR400 kit arrived this morning. My wife called and said the package is at the house. I'm at work. Now I have to wait all day. GGGrrrrr.

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=====
7.3 de Michael aa0ub | QRP:
miker@cc.com Norcal #857 CQC #180 | "UR HB 5W FB 72"
=====
Take a look at:
http://www.acs.oakland.edu/oak/SimTel/msdos/hamradio.html
=====
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From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: Bob Levine <levine@mc.com>
Subject: [3474] QRP CDRom
Message-ID: <9509261822.AA10917@fugu>

I would suggest that if the group is interested in publishing stuff on a CDRom that you might contact Fred Lloyd @ qrz.com (flloyd@qrz.com) and propose a directory on the CDRom be devoted to QRP (maybe there already is a qrp directory there).

Although QRZ! certainly is a commercial product and the author makes a few bucks on each one, it is a good and relatively cheap enough product for anyone to afford a few issues per year. Flea Mkt price is between \$12-\$15. My former company Radio Devices sold it for \$12 at fleas and \$14 mail order.

If not, it is relatively easy to get help publishing CDRoms these days. An industry contact is Walnut Creek and their web page www.cdrom.com has requests for publishers. However, I dont think a QRP-only CDRom would be profitable for anyone to undertake.

Bob

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: DHOLL@telxon.mis.telxon.com (HOLLER DAVID 2940)
Subject: [3472] QRP Frequency Counter
Message-ID: <9509261807.AA29058@telxon.mis.telxon.com>

Hello All,

I recently acquired a used frequency counter with the idea that I would use it with my Howes 40 meter QRP transceiver. Unfortunately the counter does not work. Rather than trying to claim the \$2 I spent on it as a tax write off I thought I would try to hunt down some information on it. Does anyone out there have the circuit diagram, manual, instructions or inspirational words of wisdom regarding "The Count Frequency Counter" model #FC106C produced by Teknik of Salt Lake City Utah? I tried to call the telephone number on the case but no one answers. If any of you could help me that would be great!

Dave

N1RGN

Dholl @ Telxon.com

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: N5EM@aol.com
Subject: [3485] QRP Plus on RS12
Message-ID: <950926225207_109941217@mail02.mail.aol.com>

Gang,

For those who haven't figured it out yet, here is how to put the Plus on RS12.

1. Dial in a memory on 15 meters and adjust the frequency to 21.210 mhz. (the bottom end of the transponder passband). BE CAREFUL, advanced class required.
2. Move the xcvr/rit/split switch to the RIT mode. Depress the FAST button and hold it down. Crank the dial to 29.410 mhz. (this may take a few minutes :-)
3. You are not transmitting on 15 meters and receiving on 10 meters. You WILL need a dual (or more) band antenna that covers 15 and 10 since you can not separate receive and transmit.
4. Be Careful! Do not move the RIT toggle switch. Do not depress the memory button. Either of these actions resets to the memory and you will

have to crank the whole thing again.

5. The Plus will keep this receiver offset until you do one of the two things in step 4. You can turn the radio off and disconnect the power with no adverse affect. The final frequency is always protected.

6. Since you are looking at the receive (RIT) frequency, you can adjust receive freq. while listening. If you want to QSY the transmitter, simply hold the REVERSE button down while adjusting the frequency.

7. There you have it. To take care of the dual band antenna problem, I threw together a dual dipole with a 23' piece of 450 ohm window ladder line fed by a piece of RG-8x. With the trusty MFJ antenna SWR analyser, it only took about 30 minutes (instruments inside - antenna outside) to adjust the two wires for the correct frequencies. Most of us don't have a 10 meter antenna that works at 29.4 by the way.

8. Use your favorite shareware tracking software to determine when to work the bird.

Here is where you expect to find the testimonials of the 20 rare DX stations I worked in the first pass with my new setup. Sorry to drop it to you. The bird is currently crossing North America between midnight and 6 am and between noon and 6 pm. That translates into sleep and work, respectively. But look out Saturday. I'll be there during the afternoon checking it out.

If you are one of those who never sleeps, let me know how you do this week.

72 and good DX
Ed Manuel, N5EM
n5em@aol.com

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: DougA7420@aol.com
Subject: [3488] QRP+ & AM/SWL
Message-ID: <950927022655_68882871@emout05.mail.aol.com>

The QRP+ looks great but what is the usefulness of coverage outside of the Ham bands if it doesn't have an AM detector? Can it receive SWL stations, WWV, etc? Any input would be appreciated. (I'm going to buy one either way, its a great rig)

Doug Anderson
KE6MRM

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: "John Garrett"@post.mail.demon.net, G3RHP <john@antenna.demon.co.uk>
Subject: [3494] QRP+ mods?
Message-ID: <9509230838.aa22504@post.mail.demon.net>

As a new QRP+ owner I am finding things that I guess some of you have already found solutions for. In particular:

1. Is the keyer-speed increment of 1wpm available on EPROM from Index Labs as an upgrade/exchange? If so, how much does it cost?
2. I suffer from electric fence QRM giving a loud "pop" which stuns the AGC for rather too long. Has anybody either built a noise limiter mod or changed the AGC recovery time?
3. How do you guys net accurately? Do you just set bandwidth to 100Hz and tune the RX for max signal? I am considering making an outboard audio osc with the right tone so that I can tune the RX to match that. Is the side-tone freq easily adjusted and is it linked to the CW offset?
4. Anybody changed the feed-back in the PA so that power output is the same on all bands? I find that if I set 3W on 28MHz I'm getting 8W on 3.5MHz. I don't have a spare dimmer switch :-)
5. When using headphones there is an annoying thump on keying. Probably could be eliminated if the phones were less sensitive at low freqs but mine are common "hi-fi" ones.

Apart from these minor grumbles I have found the QRP+ a joy to use. Keep up the good work, Bruce and thanks.

73 de John, G3RHP

--

john@antenna.demon.co.uk

g3rhp@amsat.org

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: mvjif@mvubr.att.com (James M Fitton 508 960 2577)
Subject: [3482] QRP-AField
Message-ID: <9509270043.AA13016@ig1.att.att.com>

QRP-AField:

Dont forget to send in your logs.

Fifteen received so far.

I have slipped to 8th place !

Chet said a fellow vacationing in Hawaii threw
a wire out the hotel window and made 1 contact
with his QRP+ rig. --- Excellent !!!

Jim W1FMR

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: swgate3!STLMAIL7!MK2331@Lehigh.EDU
Subject: [3477] QRPp arrived in St. Louis
Message-ID: <m0sxfyr-0000mtC@swgate3>

Microsoft Mail v3.0 IPM.Microsoft Mail.Note
From: KASTIGAR, MATTHEW (MM)
Subject: QRPp arrived in St. Louis
From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>
Subject: [3459] Sell Epiphyte kit
Message-ID: <25766.812127040@safety.ics.uci.edu>

I have the Epiphyte kit that Doug put together for us, complete and
untouched (and lonely). I am not going to build it, and someone has
bought me a Cascade kit that I will now put on the "to do" list ...
making it even longer.

The kit includes the board, the MuRata filter and instructions. It
is a 75 meter SSB QRP rig, see QRPp for details. It does not include
the board for the VFO.

I want what I paid for it. \$75 as I recall.

Contact me via private email please.

Clark
WA3JPG
turner@ics.uci.edu

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: PArland@aol.com
Subject: [3480] T-T Argonaut 509 & Accessories for sale
Message-ID: <950926200441_109784204@mail06.mail.aol.com>

I have two...I need only one.....

For sale: T-T Argo 509. Pristine condx...really collector quality. All original knobs, new dial cord, aligned by T-T factory last year. Primo.

Model 206 crystal calibrator and Model 208 CW active filter. Excellent condx.

Sell as a set only. Have all manuals. \$250 firm (you ship).

Tel: (717) 825-5395 after 5 PM M-F, anytime on weekends. Ask for Rich, K7YHA.

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: dgf@netcom.com (David Feldman)
Subject: [3478] What is a Ten-Tec TX-100?
Message-ID: <199509261951.MAA05671@netcom12.netcom.com>

Does someone know anything about this old transmitter, or have any docs?

73 Dave WB0GAZ dgf@netcom.com

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: George.Gingell@bbs.abs.net (George Gingell)
Subject: [3473] York PA QRP <K3TKS&WA8MCQ>
Message-ID: <1995Sep26.141509.29700@abs.net>

Director & QRP NET Manager of
QRP Amateur Radio Club International
PACKET MAIL: K3TKS @ WB3FFV.MD.USA.NOAM
E-MAIL George.Gingell@bbs.abs.net

G. (Danny) Gingell Jr., K3TKS
3052 Fairland Road
Silver Spring, Maryland 20904

Telephone (301)572-6789
Family # (301)572-7564

654 Georgia
Marysville, Michigan 48040

1101 Miles Ave. SW
Canton, Ohio 44710

September 25, 1995

Buck, Myron and other Officials of QRP ARCI.

Just a few lines to say hello and and give a short report on recent QRP activities in our area. The local contingent of QRPers provided a presence at the Annual FARFEST (Gaithersburg, MD) earlier this month. Contact WA8MCQ and/or W6TOY for a detailed report. On Saturday the 23rd of September, Mike Czuhajewski, WA8MCQ and Danny Gingell, K3TKS took the NEW CLUB BANNER to the York, PA. Hamfest to set up a Booth in the Flea Market area, handout QRP info sheets and CLUB Applications. We also brought along Back issues and a few current issues of the QRP Quarterly to sell to prospective QRPers and hopefully make the mission self supporting. We decided ahead of time that we would charge \$ 2.00 for each back issue and \$ 3.00 for each current issue. I believe this was a consensus of opinion after a brief discussion/poll on the internet. It was generally agreed that "People Valued that which they Paid for". It was also noted that this would deter those who just stop by and grab two or three of anything free and then throw it away when they get home or sooner in some cases.

We located a space beside Rich Arland, K7YHA who was promoting QRP and selling his QRP publications. Actually, we Shared the Space with Cam, KT3A of the PA QRP Group. After he left, we took over the space and paid the fees.

Rich Donated a Copy of his QRP book to be given as a Door Prize and We Decided that QRP ARCI would Donate (1) Free Club Membership as a Door Prize.

Mike and I signed the "Pre-Paid" membership application.

I do not have the names of the individuals who won the prizes, however, they were awarded. We are pleased to say that this promotion was effective and worth the time spent. We hope that other regions will also take the opportunity to USE the New Club Banners. We plan to contact Mike Bryce, WB8VGE to see if he can provide more back issues for use in future activities of this type. I might also suggest that we consider additional overprinting in the future to support this activity. This is not a new idea, The G-QRP Club has been doing it for years. I would certainly recommend that QRP ARCI sell back issues at Dayton. One more excuse to stop by the booth.

VISITORS LOG for 9/23/95 YORK, PA HAMFEST

K3TKS-Danny	WA8MCQ/3-Mike	K7YHA/3-Rich	KT3A-Cam	N2CX-Joe
W3TS-Mike	WA3SRE-John	K3NVI-Dennis	WA3RNC-John	WA3EOP-Page
N3JEK-Joe	KA30ME-F.M.	W3ASE-George	KA3GCM-John	AA3JO-Chuck
N3AAJ-Dave				

Expense Report of York, PA. Hamfest QRP ARCI BOOTH 9/23/95.

Income : \$ 18.00 (Sale of Back issues (6)(\$12) and current issues (2)(\$6)).
\$ 20.00 (2) Membership renewals.

Expenses \$ 15.00 (Admission fees and Tailgate fee).
\$ 10.00 (Gas for trip Donated by K3TKS @ WA8MCQ)
\$ 12.00 (Non-Cash QRP ARCI Membership fee Donation of Door Prize).

Amounts submitted to ARCI include \$20 for Membership renewals and \$3.00 for sale of QRP Quarterly minus our expenses.

72
ES
* QRP DX TU ,

Danny, K3TKS
QRP ARCI Director & Net Manager

* Copyright 1986, George D. Gingell Jr., K3TKS

--

George Gingell, user of the UniBoard System @ abs.net
E-Mail: George.Gingell@bbs.abs.net
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA
Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: n1ist@netcom.com (Michael L. Ardai)
Subject: [3479] Re: 40-40 boards
Message-ID: <199509262106.0AA23539@netcom4.netcom.com>

Sorry about the delay in getting back to everyone; seems like a lot of people wanted them. The two lucky winners (the first two messages in my mailbox) were N7RAT and N2YKP, and the boards are on the way.

For all the rest, I picked up the boards when I kitted 20 40-40s for the Boston ARC. I got them from FAR circuits, so they may still be available there. Thanks to NN1G and QRP-NE for allowing BARC to use

the 40-40 as a club project; certainly was a fun one.

73,
/mike
n1list@netcom.com

(anxiously awaiting my Cascade... :-)

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: Jim Eshleman <lujce@hooch.CC.Lehigh.EDU>
Subject: [3499] Re: Callsign Database Help Needed
Message-ID: <95Sep27.094615edt.4268-4+5@hooch.CC.Lehigh.EDU>

> Can anyone tell me what to use as a LOGIN and PASSWORD to telnet into
> the Callsign database at Univ of Arkansas Little Rock????
>
> I have been able to connect up but can't get in....

Telnet to callsign.ualr.edu port 2000 ("telnet callsign.ualr.edu 2000")
and you shouldn't get prompted for a username/password (see output below).
Note your telnet client must allow you to specify an alternate port number.
Note also that the database is at least two months out of date. I got my call
the beginning of Aug. and it's still not there...

73
Jim N3VXI

```
$telnet callsign.ualr.edu 2000
Trying...
Connected to athena.ualr.edu.
Escape character is '^]'.
U. S. Amateur Radio Callsign Lookup v1.0b19 - 21 Jun 1995
```

This database is derived from the online FCC database
found at ftp://fcc.gov/pub/XFS_AlphaTest/amateur

Updates for each business day are processed 01:00 Central the following day
Problems, suggestions, etc, to Steve Bour KC5NXR, jsbour@ualr.edu
Special thanks to Dale Miller KC5NXW, domiller@ualr.edu for loading
the database into DEC RDB
Web interface *NOW AVAILABLE* at <http://www.ualr.edu/doc/hamualr/callsign.html>

Type HELP for help

LOOKUP> call n3vxi

Returned 0 records.
LOOKUP> quit
Connection closed.
\$

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: Harry_Chase@smtpgw.windata.com (Harry Chase)
Subject: [3460] Re: Capacitor question and wife notes.
Message-ID: <9508268121.AA812138753@smtpgw.windata.com>

You might try using chip caps instead of the silver-mica's. With QRP the voltage and power diss. shouldnt be a problem. Typical voltage ratings on chips are 50V for the 0805's., and 100V for 1206's in small values. If you need power handling capability, you could go to the ATC porcelain types, but they're expensive. Any of these, tho, should have equal or better RF performance than silver-mica's, from the standpoint of self-resonance issues.

Harry
WA1VVH

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: Allen Jones <ajones@niiia.net>
Subject: [3461] Re: CD/ROMs QRP
Message-ID: <199509261529.KAA21575@silver.niiia.net>

>Date: Tue, 26 Sep 1995 10:28:41
>To: wa5whn@ix.netcom.com
>From: Allen Jones <ajones@niiia.net>
>Subject: Re: CD/ROMs QRP

>

>> I would like to point to
>>a book, by WA7ZZE, Chuck Penson, "Writing the Heath Book". The review
>>of the book was on Page 29, of "Electric Radio", Sept. '95 edition.
>>Granted, Chuck had written about 1 Company's Products, but he had
>>personally met a number of the original Heath Engineers, and they gave
>>him schematics, manuals, brochures etc., to include in the book.

>

>I thought of this thread last evening when I was reading the new issue of 73 Magazine. While scanning the classified ads I noticed one from Heath offering manual reprints and stating that they were the only *authorized* source for this copyright material (their words).

>

>72/73 de Allen - K9DZE

>

=====
Allen Jones K9DZE ajones@niia.net
Michigan City, Indiana EN61nq
ARCI #8797 G-QRP #8812 NorCal #1061
SWOT #1368 SMIRK #5403
=====

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995

From: JCoote@aol.com

Subject: [3476] Re: Concealed Longwire Antenna: a cry for help

Message-ID: <950926152914_29758567@emout04.mail.aol.com>

In a message dated 95-09-25 03:18:24 EDT, wkt@phyast.nhn.uoknor.edu (Wayne K. Trail) writes:

> Hi all,

> I am trying to put up a longwire antenna to work 40 and

>80 meters (and any other bands I can get to work).

> I want to put up a semi-concealed antenna on the roof of

>my apartment complex. I am on the first floor of a 2-story building

>which has a peaked roof which peaks at about 30 feet, I believe.

>I will have to run an end-fed longwire for practical reasons.

>I will not be able to do any pruning, so my

>plan is to put up a 61' longwire fed with a rg58 coax

>(could I use a smaller coax??) (which I can

>hide by taping to a drainpipe(! Is that OK?)).

Don't feed the antenna with coax if it is to be a random wire. 1/2 wave dipoles *usually* are a good match to coax, since the feed impedance at resonance just happens to be close to 50 ohms. If you try to "forcefeed" a mis-matched or non-resonant antenna through coax, the coax would radiate more than a balanced line. Also, coax is unforgiving of high VSWR. I heard a story of a ham who was beside himself with joy over his low SWR. He bought a tuner, installed it in the coax between his R/T and a 10 meter or CB antenna, he was boasting a "perfect match" on 80 and 40. ;-) All he was doing was letting the transmitter see a nice 50-ohm load... he may have made a few local contacts, but the rest of his RF was probably dissipating in the mis-matched coax.

One good way to feed a wire is in the middle with a good quality 300 ohm TV line and a balanced tuner. Balanced lines don't mind the high SWRs and mismatch.

The other way is to feed the wire on the end and operate it against a wire counterpoise radial. If you use end-feed, remember that the counterpoise and the antenna lead-in are part of the radiating system, so try to get as much of it outside as possible. The ideal location for a random wire tuner is right by a window where the antenna and counterpoise wires come in

>How thin a wire can I get away with on the antenna? (assuming
>5-10 watts max power from a QRP+)?

You could use up to #26 or #28 without too much resistive loss in the wire. Note that you don't have to use "antenna wire" or magnet wire. I have had good luck using stranded gray or brown jacketed wire. If the wire is stretched between objects or self-supporting then it may need to be thicker so it won't snap under its own weight, weight of guy ropes, frost, etc.

>Should I be using some other transmission line
>(as seemed to be indicated in discussion in this group
>over the last few days)? If so, what kind and is it
>OK to run it alongside a drainpipe?

450 ohm ladder line is good, but a little bulky for some concealed ops. 300 ohm TV line (the thick, low-loss stuff) is also good. It could run alongside a drainpipe. TV standoffs and mounting hardware can be used to secure 300 ohm line and look the part.

>Should I make the wire as long as possible (e.g. 71 feet--
>which is max allowed by roof size)
>or should I cut it so that it is pretty close to tuned
>on some 80m frequency which makes it around 61 feet (1/4 wave)?

Get out as much wire as possible if you will feed this antenna with a tuner and end- or center feed. Resonance doesn't matter since the antenna will be allband and fed with a tuner. You're don't need to get 50 ohms to feed coax, so the antenna does not have to be pruned exactly. The total wire length will be from the tuner ANT terminal to the far end of the wire, in a random wire. If you go with center-feed the balanced line should be in the exact middle of the wire (like a dipole).

Your antenna and counterpoise should be as long as practical, more than 1/4 wave on the lowest band used is most efficient. Some tuners may have difficulty loading certain wire/counterpoise lengths. Vary one or both until you have a length combo which tunes up on all nine bands without having to re-prune each time.

73 Jay
WB6AAM

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: Rich Mulvey <mulveyr@vivanet.com>
Subject: [3465] Re: Has anybody in MD recd QRPp?
Message-ID: <199509261609.MAA09390@linux>

It takes a while to get to the East coast. I usually have to wait for 7-10 days before it shows up here. (Doug mailed them last Thursday, I believe.)

>
> I remember there was a posting stating that the latest
> QRPp issues hv been mailed. I hv not got mine yet. What
> about folks in Washington DC area? (The waiting is killing
> me!)

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: af852@rgfn.epcc.Edu (William R Colbert)
Subject: [3471] Re: Has anybody in MD recd QRPp?
Message-ID: <9509261738.AA05373@rgfn.epcc.Edu>

They haven't arrived in Far West Texas as of today either. Anxiously awaiting arrival. Ray, W5XE

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: James Lyons <jlyons@CAM.ORG>
Subject: [3481] Re: Has anybody in MD recd QRPp?
Message-ID: <199509270014.UAA01158@Ocean.CAM.ORG>

QRPp arrived in Montreal last week.
JIm, VE2KN

On Tue, 26 Sep 1995, Sam Mohan wrote:

> I remember there was a posting stating that the latest
> QRPp issues hv been mailed. I hv not got mine yet. What
> about folks in Washington DC area? (The waiting is killing
> me!)

> Tnx.
>
> 73 Sam N3UTM
> SMohan@Orchid.Telenet.com
>
>

From qrp-l@lehigh.edu Wed Sep 27 10:12:00 1995
From: cebik@UTKVX.UTCC.UTK.EDU
Subject: [3492] Re: Has anybody in MD recd QRPP?
Message-ID: <Pine.PMDF.3.91.950927065304.543380608C-100000@utkvx.utk.edu>

Tennessee has received its QRPP issue, so MD cannot be far behind
(arrived yesterday).

-73-
LB, W4RNL

From qrp-l@lehigh.edu Wed Sep 27 10:12:00 1995
From: rgobrick@public.compusult.nf.ca (Robert J. Gobrick)
Subject: [3475] Re: NN1G rig on 20???
Message-ID: <199509261923.QAA12308@public.compusult.nf.ca>

Rob,

To get that answer first-hand you have to join the New England QRP Club
(or QRP Club of New England) and get their great newsletter called "72". In
the upcoming halloween issue is maybe (just maybe) the answer to your
question.. Oh, the suspense...

73/72 Bob V01DRB/WA6ERB

>Hi folks-
>
>Can anyone on the QRP-L tell me whether or not Dave Benson, NN1G, has a 20
>meter version of his famous 40-40? I know there is a 40-30, but I haven't
>heard whether or not Dave has gotten around to doing a 40-20.
>
>I do not monitor QRP-L, so please respond directly to: Robcap@AOL.com
>
>72,
>

>Rob, WA3ULH

>

>

```
-----  
|   Bob Gobrick  VO1DRB/WA6ERB/VE2DRB  Newfoundland, Canada   |  
|   QRPer Galore - QRP ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |  
|   Internet:      bgobrick@terra.nlnet.nf.ca                   |  
|                  rgobrick@public.compuserve.nf.ca             |  
|   Compuserve:    70466.1405@compuserve.com                    |  
|-----|
```

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995

From: Bob Levine <levine@mc.com>

Subject: [3495] Re: Oak Hills Research Kits

Message-ID: <9509271300.AA11914@fugu>

----- Begin Included Message -----

Hi,

does anybody here on the reflector know a good supplier for OHR-QRP-Kits in the USA? I prefer suppliers with E-mail access. So I tried send an E-mail to bob@raddev.com which is an employee of Radio Devices, Marlboro, Ma but I never received an ansvere back. I'm gonna buy me an EXPLORER Kit so I have to determine and compare the differnt offers.

Thank you in advance.

vy 73 de DL6RDE/AA1KD, Charlie

----- End Included Message -----

Charlie,

I am the former owner of Radio Devices (bob@raddev.com). The business changed hands and I am currently forwarding all email to rhynek@raddev.com who is the new owner. He is on vacation for a few weeks so he probably didnt get your email.

Try again to Rhyne (KA1CX) rhyne@raddev.com. His phone is (508)692-1653. He also takes MC/V.

Bob

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: Dquagliana@aol.com
Subject: [3466] Re: portable mast results
Message-ID: <950926123556_109349546@emout06.mail.aol.com>

Jim Nostor writes:

>Date: Tue, 5 Sep 1995 11:13:24 -0400
>From: Jim.Nestor@ey.com
>Subject: [3047] portable mast results
>
>
>Tried all the scrap tubing I had and couldn't find anything suitable to join
>the 5' handles. Too bad, would have made a nice non-conductive 20' pole.
>When time permits, may get some hardwood and bore it to make couplings.

Sorry for the late reply, I'm about two weeks behind on my QRP-L reading. If the ends of the 5' poles are threaded, I know what you want.

Go to Home Depot, or another hardware type store and look around in the painting section. They sell a collapsable paint pole. It is made up of four pieces of 2' threaded wooden pole and comes with four orange plastic threaded couplers into which the 2' poles are screwed. You could just replace their 2' threaded poles with your 5' threaded poles. I don't remember the exact cost, but it was less than \$5 for the collapsable paint pole.

72s
Doug KA2UPW
dquagliana@aol.com

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: [3483] Re: QRP-L digest 130
Message-ID: <9509270121.AA09181@deneb.csustan.edu>

q

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995

From: Steve.hideg.1@nd.edu (Steve Hideg)
Subject: [3486] Re: QRPp arrived in St. Louis
Message-ID: <v0213050eac8e71639bcf@[129.74.35.16]>

>Just called home and y1 said QRPp had arrived today... I guess it takes a
>while to get to the Silicon Prairie via stage-coach!

Jim, can you create a mailing list for qrp journal arrival announcements?

72

Steve Hideg Macintosh Consultant/Analyst

Office of University Computing	Telephone: (219) 631-EXAM
G034 Computing Center/Math Building	E-mail: Steve.Hideg.1@nd.edu
University of Notre Dame	URL: http://www.nd.edu/~shideg/
Notre Dame, IN 46556	Ham Radio: N8HSC/9

The road to Enlightenment is long and difficult.
(So bring snacks and a magazine.)

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: "Arjen Raateland, SYKE/YV, puh. 90-4030 0457" <Arjen.Raateland@vyh.fi>
Subject: [3490] Re: RE: Has anybody in MD recd QRPp?
Message-ID: <01HVRNAGL31K91WK0D@vyh21.vyh.fi>

>They haven't arrived in Far West Texas as of today either. Anxiously
>awaiting arrival. Ray, W5XE

FYI: The latest QRPp arrived in Helsinki, Finland, Europe last week or
perhaps it was the week before that ...

73 de OH2ZAZ, Arjen

Arjen Raateland
Suomen Ymp rist nkeskus / YV

Finnish Environment Agency, Helsinki, Finland
SAS Support
EMAIL: Arjen.Raateland@vyh.fi

tel. +358 0 4030 0457
fax +358 0 4030 0490
-.-. -.-

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: Risley <risley@nando.net>
Subject: [3498] Re: T-T Argonaut 509 & Accessories for sale
Message-ID: <Pine.SUN.3.91.950927094309.4847A-100000@parsifal.nando.net>

If it is not gone yet, I want it! Send me e-mail and I'll make arrangements. Thanks Rich!
Rhett Isley, KB4HG, Cary, NC

On Tue, 26 Sep 1995 PArland@aol.com wrote:

> I have two...I need only one.....
>
> For sale: T-T Argo 509. Pristine condx...really collector quality. All
> original knobs, new dial cord, aligned by T-T factory last year. Primo.
>
> Model 206 crystal calibrator and Model 208 CW active filter. Excellent condx.
>
> Sell as a set only. Have all manuals. \$250 firm (you ship).
>
> Tel: (717) 825-5395 after 5 PM M-F, anytime on weekends. Ask for Rich, K7YHA.
>
>

From qrp-1@lehigh.edu Wed Sep 27 10:12:00 1995
From: prvalko <prvalko@Oakland.edu>
Subject: [3484] Re: What is a Ten-Tec TX-100?
Message-ID: <Pine.OSF.3.91.950926222902.5427C-100000@saturn.acs.oakland.edu>

On Tue, 26 Sep 1995, David Feldman wrote:

> Does someone know anything about this old transmitter, or
> have any docs?

Oh Dave, you big tease, what have you found???!!!!??? My latest TT
aquisition is an SP-525 military HF receiver. Heh hehe heheh BOY is

that cool... crystal ovens on BOTH IFs.

ObQRP (and I'm GLAD to see others doing ObQRPs too) Man! It's getting to be that QRP time of the year! I've ordered a KC-1, had a few Qs with the NC-40a, and even dusted off the ol' NN1G 20 meter rig from Dan's K&SP. Tally HO!!!! 73! =paul= wb8zjl